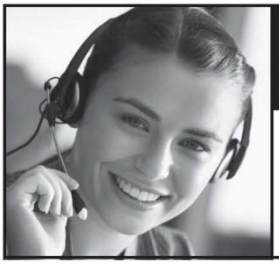
OPERATOR'S MANUAL

10" Dual Bevel Sliding Compound Miter Saw

Model # 70751

IMPORTANT

Your new tool has been engineered and manufactured to Apex Pro's high standards for dependability, ease of operation, and operator safety. Properly cared for, it will give you years of rugged, trouble-free performance.
Pay close attention to the Rules for Safe Operation, Warnings, and Cautions. If you use your tool properly and only for what it is intended, you will enjoy years of safe, reliable service.



Product questions or need technical support? Please feel free to contact us!

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TABLE OF CONTENTS

Specifications …… 3
General safety rules …… 4
Safety rules for laser lights …… 5
Additional safety rules for miter saws …… 6
Know your product …… 7
Operation and adjustments …… 8
- Unpacking …… 8
- Transportation …… 8
- Bench mounting …… 8
- Release knob …… 8
- Slide lock …… 8
- Miter table lock …… 8
- Bevel lock …… 9
- Bevel adjuster …… 9
- Hold down clamp assembly …… 9
- Spindle lock button …… 9
- Rotating lower blade guard …… 9
- Dust collection bag …… 9
- Attaching the material support arms …… 10
- Trench depth adjustment …… 10
- Turning on and off …… 10
- Turning on the laser line generator …… 10
- Setting the table square with the blade …… 11
- Setting the fence square with the table …… 12
- Changing a blade …… 12
- Cross-cutting (without slide action) …… 13
- Cross-cutting (with slide action) …… 14
- Bevel cut …… 14
- Compound miter cut …… 14
- Adjusting the laser lines …… 15
- Using the laser line generator …… 15

Maintenance …… 16
- Power cord maintenance …… 16
- Cleaning …… 16
- General inspection …… 16

Exploded view and parts list …… 17
Limited two years warranty…… 21

WARNINGS

It may be more difficult to see the laser line in conditions of bright sunshine and on certain surfaces.

For safe operation read instruction manual.

Specifications

Model Number	70751
Input Power	120V, 60Hz, 15A
No Load Speed	5000 RPM
Blade Size	10" x 5/8" bore
Number of teeth	40
Miter Table Angles	0 °to 60 °(L), 0 °to 50 °(R)
Bevel Cuts	0 °to 45 °(L&R)
Cutting Capacity	
Straight cut	at 0° miter, 0° bevel: 3 3/8x12”
Miter cut	at 45 °miter, 0 °bevel: 3 3/8x8 1/2”
	at 52° left miter, 0° bevel: 3 3/8x6”
	at 52° right miter, 0° bevel: 3 3/8x7 5/8”
Bevel cut	at 0° miter, 45° right bevel: 1x 12”
	at 0° miter, 45° left bevel : 2x 12”
Compound miter cut	at 45° right miter, 45° right bevel: 1x8 1/2”
	at 50° right miter, 45° right bevel: 1x7 5/8”
	at 45° left miter, 45° left bevel: 2x8 1/2”
	at 52° left miter, 45° left bevel: 2 1/4x6”
Laser type	LDBXQ03B
Laser class	Class IIIa
Laser wave length	650nm
Laser Max. output	<5 mW
Weight	49.5 lbs

Included

The Apex Pro™ 10" Dual Bevel Sliding Compound Miter Saw is supplied with the following accessories as standard:

- Saw blade (installed)
- Hold down clamp
- 6 mm hex key
- 2 material support arms
- Dust collection bag
- Instruction manual

General safety rules

WARNING: Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
Save all warnings and instructions for future reference.
The term "power tool" in the warnings refers to your operated (corded) power tool.

1. Work area safety

a. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
b. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
c. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2. Electrical safety

a. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
b. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
c. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
d. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
e. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
f. To reduce the risk of electric shock, the manufacturer recommends the use of a residual current device with a rated residual current of 30mA or less at all times.

3. Personal safety

a. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
b. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
c. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
d. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
e. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
f. Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
g. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

4. Power tool use and care

a. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
b. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
c. Disconnect the plug from the power source and from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
d. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
e. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
f. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
g. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
h. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
i. Children should be supervised to ensure that they do not play with the appliance.

5. Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Safety rules for laser lights

WARNING: Do not stare directly at the laser beam.
WARNING: It may be more difficult to see the laser line in conditions of bright sunshine and on certain surfaces.

A hazard may exist if you deliberately stare into the beam, please observe all safety rules as follows:

- The laser shall be used and maintained in accordance with the manufacturer's instructions.
- Never aim the beam at any person or an object other than the workpiece.
- The laser beam shall not be deliberately aimed at personnel and shall be prevented from being directed towards the eye of a person for longer than 0.25s.
- Always ensure the laser beam is aimed at a sturdy workpiece without reflective surfaces. i.e. wood or rough coated surfaces are acceptable. Bright shiny reflective sheet steel or the like is not suitable for laser use as the reflective surface could direct the beam back at the operator.
- Do not change the laser light assembly with a different type. Repairs must be carried out by the laser manufacturer or an authorized agent.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Additional safety rules for miter saws

- Ensure that the lighting is adequate.
- Do not use the saw unless the guards are in place.
- Do not use the saw to cut metal or masonry.
- Keep the area free of tripping hazards.
- Do not let anyone under 18 years operate this saw.
- Always stand to one side when operating the saw.
- Never use damaged or deformed saw blades. Only use sharp blades.
- When cutting round wood, use clamps that prevent the workpiece from turning on both sides of the blade.
- Never use your hands to remove sawdust, chips or waste close by the saw blade.
- Use only blades as recommended by the manufacturer.
- Do not use blades manufactured from high speed steel.
- If the table insert is damaged or worn, have it replaced by an authorized service center.
- Before making compound miter cuts, ensure that the work head is securely fixed in the desired position.
- Rags, cloths, cord, string and the like should never be left around the work area.
- Avoid cutting nails. Inspect the workpiece and remove all nails and other foreign objects before beginning sawing.
- Support the work properly.
- Never reach over the blade to remove waste or cut offs.
- Do not attempt to free a jammed blade before first switching off the machine.
- Do not slow or stop a blade with a piece of wood. Let the blade come to rest naturally.
- If you are interrupted when operating the saw, complete the process and switch off before looking up.
- Periodically check that all nuts, bolts and other fasteners are properly tightened.
- Always hold the saw on parts that are insulated. If you accidentally cut into hidden wiring or the saw's own cable, the metal parts of the saw will become 'live'. Switch off at the mains and remove the plug immediately.
- Connect the saw to a dust collection device and ensure that it is operated properly.
- Wear gloves when handling saw blades.
- Keep the floor area around the machine level, well maintained and free of loose materials such as wood chips and cut-offs.
- During slide cutting, always ensure that the saw blade is pushed away from the operator.
- Always use stands to provide support for long work pieces that overhang the turntable.
- Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

WARNING: We recommend the use of a Ground-Fault Circuit Interrupter (GFCI).

Wear goggles **Wear earmuffs** **Wear a breathing mask**

WARNING! For your own safety read instruction manual before operating miter saw. Wear eye protection. Keep hands out of path of saw blade. Do not operate saw without guards in place. Do not perform any operation freehand. Never reach around saw blade. Turn off tool and wait for saw blade to stop before moving workpiece or changing settings. When changing the blade, replace and secure all guarding to its original position and correctly before starting tool. Disconnect power (or unplug tool as applicable) before changing blade or servicing. Do not expose to rain or use in damp locations. To reduce the risk of injury, return carriage to the full rear position after each crosscut operation.

The tool must be used only for its prescribed purpose. Any use other than those mentioned in this Manual will be considered a case of misuse. The user and not the manufacturer shall be liable for any damage or injury resulting from such cases of misuse.

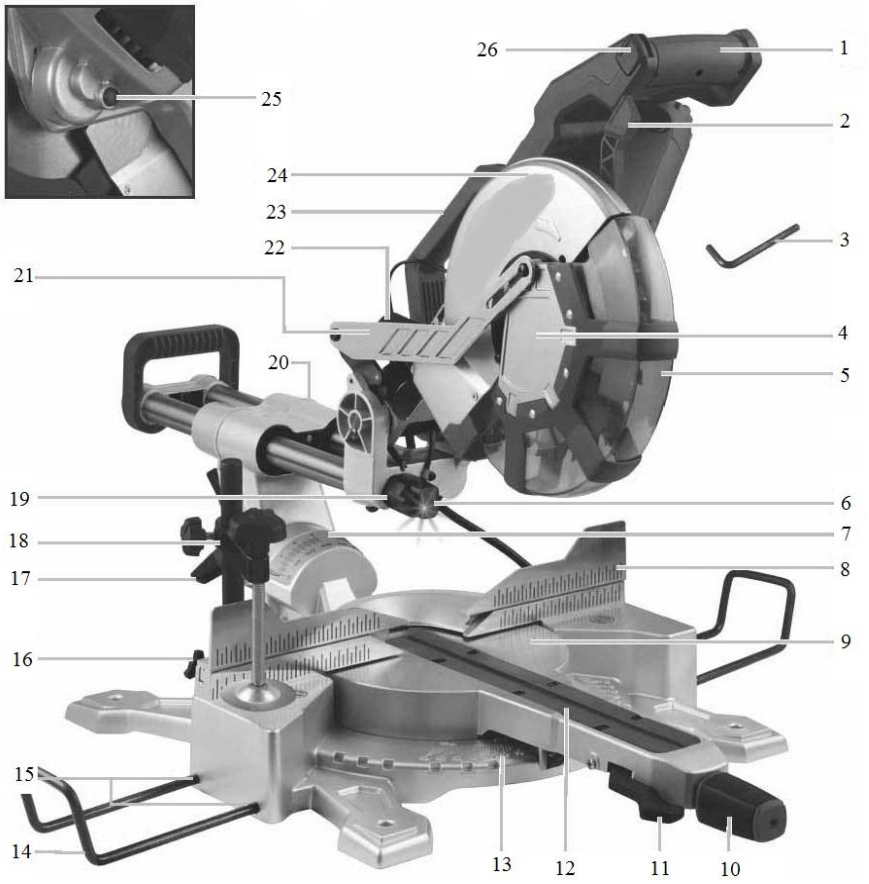
The manufacturer shall not be liable for any changes made to the tool nor for any damage resulting from such changes.

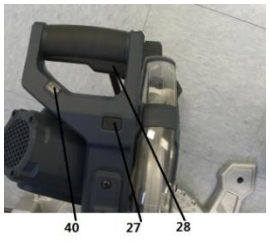
Even when the tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the tool's construction and design:

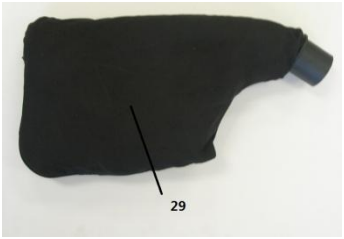
- Damage to the lungs if an effective dust mask is not worn.
- Damage to hearing if effective earmuffs are not worn.

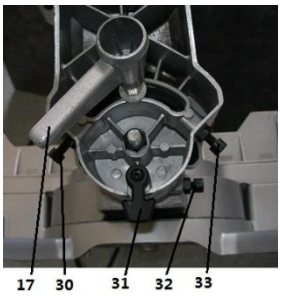
Know your product

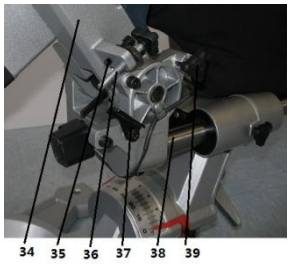
Before using the saw, familiarize yourself with all the operating features and safety requirements.











1. Operating handle
2. Release latch
3. 1/4" (6mm) Hex key
4. Blade bolt cover
5. Rotating blade guard
6. Laser light assembly
7. Bevel scale
8. Fence
9. Miter table
10. Miter table lock
11. Miter release lever
12. Table insert (kerf plate)
13. Miter scale
14. Side support bars (x2)
15. Side support bar location holes (2 sets)
16. Clamp assembly lock (x2)
17. Bevel lock
18. Clamp assembly
19. Laser cover
20. Slide lock
21. Guard retraction arm
22. Dust extraction port
23. Carrying handle
24. Upper fixed blade guard
25. Spindle lock
26. Lock off switch
27. Laser light on/off switch
28. Switch trigger
29. Dust collection bag
30. 45 °Bevel adjustment screw (right)
31. 0 °Bevel adjuster
32. 0 °Bevel adjustment screw
33. 45 °Bevel adjustment screw (left)
34. Saw arm
35. Trenching depth lock nut
36. Trenching depth adjustment screw
37. Trenching stop
38. Release knob
39. Slide bars
40. Miter release latch

Operation and adjustments

Unpacking

Due to modern mass production techniques, it is unlikely that your Apex Pro™ Power Tool is faulty or that a part is missing. However, if you find anything wrong, do not operate the tool until the parts have been replaced or the fault has been rectified. Failure to do so could result in serious personal injury.

1. Remove all loose parts from the carton.
2. Remove the packing materials from around the saw.
3. Using the carrying handle (23) carefully lift the saw from the carton and place it on a level work surface.
4. The saw has been shipped with the saw arm locked in the down position. To release the saw arm, push down on the top of the saw arm, pull on the release knob (38), rotate it 45 °and let go, slowly raise the saw arm.

WARNING: Do not lift the saw while holding on to the guards. Use the carrying handle (23).

Transportation

Lift the miter saw only when the saw arm is locked in the down position, the saw is switched off and the plug is removed from the power point.
Only lift the saw by the carrying handle (23) or outer castings. Do not lift the saw using the guard or operating handle (1).

Bench mounting

The saw base has holes in each corner to facilitate bench mounting (Fig. 1).

1. Mount the saw to a level, horizontal bench or work table using bolts (not supplied) and fix the saw to the bench using 4 bolts.
2. If desired, you can mount the saw to a piece of 1/2" or thicker plywood which can then be clamped to your work support or moved to other job sites and re-clamped.

CAUTION: Make sure that the mounting surface is not warped as an uneven surface can cause binding and inaccurate sawing.

Fig. 1

Release knob

The release knob (38) is provided for holding the cutting head down while transporting or storing the miter saw (Fig. 2). The saw must never be used with the release knob locking the head down.

Fig. 2

Slide lock

When tightened, the slide lock (20) prevents the saw head from sliding. Tighten the slide lock during transportation (Fig. 3).

Miter table lock

The miter table lock (10) is used to lock the table at the desired miter angle (Fig. 4). The miter saw cuts from 0 °to 52.5 °both left and right. To adjust the miter angle loosen the miter table lock and depress the miter lever to allow the table to rotate, rotate to the desired miter angle and lock the table in place. The miter table features positive click stops at 0 °, 15 °, 22.5 °, 31.6 °and 45 °for quick setting of common miter angles.

Fig. 3

WARNING: Be sure to tighten the miter table lock before making a cut. Failure to do so could result in the table moving during the cut and cause serious personal injury.

Fig. 4

Bevel lock

The bevel lock (17) is used to set the blade at the desired bevel angle (Fig. 5). The miter saw bevel cuts from 0 °to 45 °to the left and right. To adjust the bevel angle loosen the bevel lock and pull out the 0 °bevel adjuster (31). Adjust the saw arm to the desired bevel angle.

WARNING: Be sure to tighten the bevel lock before making a cut. Failure to do so could result in the saw arm moving during the cut and cause serious personal injury.

Bevel adjuster

The bevel adjuster (31) needs to be pulled out before the bevel angle can be adjusted (Fig. 6).
To return the saw arm to the vertical (0 °bevel) position, move the saw arm to the left and push in the 0 °bevel adjuster.
Return the saw blade to the vertical position; it will automatically stop at the 0 °bevel position. Tighten the bevel lock.

Hold down clamp assembly

The hold down clamp assembly (18) can be mounted to the fence, either side of the saw blade, to suit the task at hand.
Use the clamp assembly lock (16) at the back of the fence to secure the clamp assembly in position (Fig. 7).

Note: use only ONE clamp at a time.

Spindle lock button

The spindle lock button (25) prevents the blade in the saw from rotating (Fig. 8). Depress and hold the spindle lock button while installing, changing, or removing the blade.

Rotating lower blade guard

The rotating lower blade guard (5) provides protection from both sides of the blade (Fig. 9). It retracts over the upper blade guard (24) as the saw is lowered into the workpiece.

Dust collection bag

The dust collection bag (29) fits over the dust extraction port (22). For more efficient operation, empty the dust bag when it is no more than half full. This allows better air flow through the bag.

Attaching the material support arms

The material support arms (14) help to support the material when working with long workpieces. There are two location holes (15) for a support arm on either side of the table. Loosen the lock knobs on the back of the base at the bottom. Ensure the support arms are fully inserted before using them to support the workpiece (Fig. 10).
The material support arm locking knobs must be tightened to secure the support arms in position (Fig. 11).

Fig. 10

Fig. 11

Trench depth adjustment

In its normal position, the trenching stop (37) permits the saw blade to cut right through a workpiece. When the saw arm is lifted, the trenching stop can be moved to the left so that the trenching depth adjustment screw (36) contacts the stop as the saw arm is lowered. (Fig.12).This restricts the cut to a "trench" in the workpiece. The depth of the trench can be adjusted with the trenching depth adjustment screw (30) (Fig. 13) and locked in position with the trenching depth lock nut (35) (Fig. 14).

Fig. 12

Fig. 13

Fig. 14

Turning on and off

1. Depress lock off button (26) and pull switch trigger in (Fig. 15).
2. To turn the saw off release the on/off trigger switch (28).

Fig. 15

Turning on the laser line generator

The laser line generator emits 2 intense narrow beams of pure red light to guide you as you cut. It improves operator cutting vision, enables faster set-up, increases accuracy and improves safety. To turn on the laser lines, press the laser light on/off switch (27) (Fig. 16). To turn off the laser press the laser light on/off switch (27) one more time.

Fig. 16

Setting the table square with the blade

1. Make sure that the electrical plug is removed from the outlet.
2. Push the saw arm (34) down to its lowest position and engage the release knob (6) to hold the saw arm in the transport position.
3. Loosen the miter lock (10) (Fig. 17).
4. Rotate the table (9) until the pointer is positioned at 0 º.
5. Tighten the miter lock (10).
6. Loosen the bevel lock (17) and set the saw arm (5) at 0 ºbevel (the blade at 90 ºto the miter table). Tighten the bevel lock (17) (Fig. 18).
7. Place a set square against the table (9) and the flat part of the blade (Fig. 19).

Note: Make sure that the square contacts the flat part of the saw blade, not the teeth.

8. Rotate the blade by hand and check the blade-to-table alignment at several points.
9. The edge of the set square and the saw blade should be parallel.
10. If the saw blade angles away from the set square, adjust as follows.
11. Use a 13mm wrench or adjustable wrench to loosen the lock nut securing the 0 °bevel adjustment screw (35) (Fig. 20). Also, loosen the bevel lock (16).
12. Adjust the 0 °bevel adjustment screw (32) with the 6mm hex key to bring the saw blade into alignment with the square (Fig. 21).
13. Loosen the 2 Phillips head screws holding the pointer of the bevel scale (7) and adjust the position of the pointer so that it accurately indicates zero on the scale (Fig. 22). Retighten the screw.
14. Retighten the bevel lock (17) and the lock nut securing the 0 °bevel adjustment screw (32).

Note: The above procedure can also be used to check the angle of the saw blade to the table at either 45 ºbevel angle to the left or to the right. The 45 °bevel adjustment screws (30 & 33) are on opposite sides of the saw arm. You will require a 13mm wrench or adjustable wrench (not supplied) for the lock nut (Fig. 23) and the 6mm hex key for the set screws (Fig. 24).

Fig. 17

Fig. 18

Fig. 19

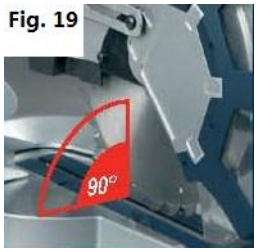


Fig. 20

Fig. 21

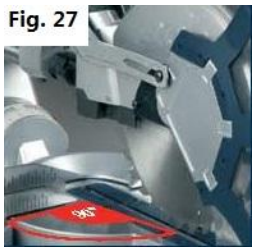
Fig. 22

Fig. 23

Fig. 24

Setting the fence square with the table

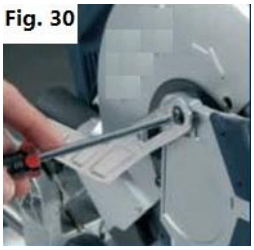
1. Make sure that the electrical plug is removed from the outlet.
2. Push the saw arm (34) down to its lowest position and engage the release knob (6) to hold the saw arm in the transport position.
3. Loosen the miter lock (10).
4. Rotate the table (9) until the pointer is positioned at 0 º.
5. Tighten the miter lock (10).
6. Using the 6mm hex key loosen the hex screw securing the top piece of the right hand side fence (Fig. 25) and remove this top section.
7. Using the 6mm hex key provided, loosen the four screws securing the fence (8) to the base (Fig. 26).
8. Place a square against the fence (8) and alongside the blade (Fig. 27).
9. Adjust the fence (8) until it is square with the blade.
10. Tighten the screws securing the fence (8).
11. Loosen the Phillips head screw holding the pointer of the miter scale (13) and adjust it so that it accurately indicates the zero position on the miter scale (Fig. 28).
12. Retighten the screw securing the miter scale pointer.
13. Replace the top section of the fence and secure the hex screw using the 6mm hex key.



Changing a blade

DANGER! Never try to use a blade larger than the stated capacity of the saw. It might come into contact with the blade guards. Never use a blade that is too thick to allow the outer blade washer to engage with the flats on the spindle. It will prevent the blade screw from properly securing the blade on the spindle. Do not use the saw to cut metal or masonry. Ensure that any spacers and spindle rings that may be required suit the spindle and the blade fitted.

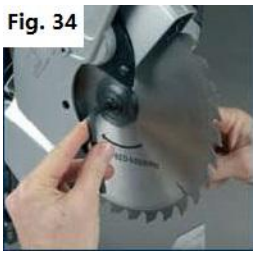
1. Make sure that the electrical plug is removed from the power source.
2. Push down on the operating handle (1) and pull the release knob (38) to disengage the saw arm (34). The release knob (38) can be turned so that it is held in the retracted position (Fig. 29).
3. Raise the saw arm (34) to its highest position.
4. Using a Phillips head screwdriver loosen and remove the screw that secures the guard retraction arm (21) to the rotating blade guard (Fig 30).
5. Using a Phillips head screwdriver loosen (Fig. 31) and remove the screw that secures the blade bolt cover (4).
6. Pull the rotating blade guard (5) down then swing it up together with the blade bolt cover (4). When the rotating blade guard (5) is positioned over the upper fixed blade guard (24) it is possible to access the blade bolt (Fig. 32).



7. Hold the rotating guard (5) up and press the spindle lock button (25) (Fig. 33). Rotate the blade until the spindle locks.
8. Use the 6mm hex key provided to loosen and remove the blade bolt. (Loosen in a **clockwise** direction as the blade screw has a left hand thread) (Fig. 34).
9. Remove the flat washer and outer blade washer and the blade.
10. Wipe a drop of oil onto the inner blade washer and the outer blade washer where they contact the blade.
11. Fit the new blade onto the spindle taking care that the inner blade washer sits behind the blade (Fig. 35).

Fig. 33

Fig. 34



CAUTION: To ensure correct blade rotation, always install the blade with the blade teeth and the arrow printed on the side of the blade pointing down. The direction of blade rotation is also stamped with an arrow on the upper blade guard.

12. Replace the outer blade washer (Fig. 36).
13. Depress the spindle lock button (25) and replace the flat washer and blade bolt.
14. Use the 6mm hex key to tighten the blade bolt securely (tighten in an anti-clockwise direction).
15. Lower the blade guard, hold the rotating lower blade guard (5) and blade bolt cover (4) in position and tighten the fixing screw (Fig. 37).
16. Replace the guard retraction arm and secure onto the rotating blade guard (Fig 38).
17. Check that the blade guard operates correctly and covers the blade as the saw arm is lowered.
18. Connect the saw to the power supply and run the blade to make certain that it is operating correctly.

Fig. 35

Fig. 36

Fig. 37

Fig. 38

Cross-cutting (without slide action)

When cutting a narrow piece of wood it is not necessary to use the slide mechanism. In these cases ensure that the slide lock (20) is screwed down to prevent the saw arm from sliding. A crosscut is made by cutting across the grain of the workpiece. A 90 ºcrosscut is made with the miter table set at 0 º(Fig. 39). Miter crosscuts are made with the table set at some angle other than zero.

Fig. 39

1. Pull on the release knob (38) and lift the saw arm (34) to its full height.
2. Loosen the miter lock (10).
3. Rotate the miter table (9) until the pointer aligns with the desired angle.
4. Retighten the miter lock (10).

WARNING: Be sure to tighten the miter lock before making a cut. Failure to do so could result in the table moving during the cut and cause serious personal injury.

Fig. 40

5. Place the workpiece flat on the table with one edge securely against the fence (8). If the board is warped, place the convex side against the fence. If the concave side is placed against the fence, the board could break and jam the blade.
6. When cutting long pieces of lumber, support the opposite end of the lumber with the material support arms, a roller stand or a work surface that is level with the saw table.
7. Use the hold down clamp assembly (18) to secure the workpiece wherever possible.
8. It is possible to remove the hold down clamp assembly (18) by loosening the hold down clamp assembly lock (16) and moving it to the other side of the table. Make sure the hold down clamp assembly lock is tight before using the hold down clamp (Fig. 40). Never use more than ONE hold down clamp.
9. Before turning on the saw, perform a dry run of the cutting operation to check that there are no problems.

10. Hold the operating handle (1) firmly, depress lock off button (25) and squeeze the switch trigger (28) (Fig. 41). Allow the blade to reach maximum speed and slowly lower the blade into and through the workpiece.
11. Release the switch trigger (28) and allow the saw blade to stop rotating before raising the blade out of the workpiece. Wait until the blade stops before removing the workpiece.

Fig. 41

Cross-cutting (with slide action)

When cutting wide workpieces, first unscrew the slide lock (20).

1. Pull on the release knob (38), raise the saw arm (34) to its highest position and slide it towards you (Fig. 42).
2. Hold the handle firmly and squeeze the switch trigger (28). Allow the blade to reach maximum speed.
3. Slowly lower the blade into the workpiece and slide it away from you at the same time until the workpiece is cut.
4. Release the switch trigger (28) and allow the saw blade to stop rotating before raising the blade out of the workpiece. Wait until the blade stops before removing the workpiece.

Fig. 42

Bevel cut

A bevel cut is made by cutting across the grain of the workpiece with the blade angled to the fence and miter table. The miter table is set at the zero degree position and the blade set at an angle between 0 ºand 45 º(Fig. 43).
Use the slide action when cutting wide workpieces.

Fig. 43

1. Pull on the release knob (38) and lift the saw arm to its full height.
2. Loosen the miter lock (10).
3. Rotate the miter table (9) until the pointer aligns with zero on the miter scale (13).
4. Retighten the miter lock (10).

WARNING: Be sure to tighten the miter lock before making a cut. Failure to do so could result in the table moving during the cut, causing serious personal injury.

5. Loosen the bevel lock (17) and pull out the 0 ºbevel adjuster. Move the saw arm (34) to the left or right to the desired bevel angle (between 0 ºand 45 º). Tighten the bevel lock (17).
6. Place the workpiece flat on the table with one edge securely against the fence (8). If the board is warped, place the convex side against the fence. If the concave side is placed against the fence, the board could break and jam the blade.
7. When cutting long pieces of lumber, support the opposite end of the lumber with the material support arms, a roller stand or a work surface that is level with the saw table.
8. Use the hold down clamp assembly (18) to secure the workpiece wherever possible.
9. It is possible to remove the hold down clamp assembly (18) by loosening the clamp assembly lock (16) and moving it to the other side of the table. Make sure the hold down clamp assembly lock is tight before using the hold down clamp.
10. Before turning on the saw, perform a dry run of the cutting operation to check that there are no problems.
11. Hold the operating handle (1) firmly and squeeze the switch trigger (28). Allow the blade to reach maximum speed.
12. Press the release latch (2) and slowly lower the blade into and through the workpiece.
13. Release the switch trigger (28) and allow the saw blade to stop rotating before raising the blade out of the workpiece. Wait until the blade stops before removing the workpiece.

Compound miter cut

A compound miter cut involves using a miter angle and a bevel angle at the same time (Fig. 44). It is used in making picture frames, to cut mouldings, making boxes with sloping sides and for roof framing. Always make a test cut on a piece of scrap wood before cutting into the good material.
Use the slide action when cutting wide workpieces.

Fig. 44

1. Pull on the release knob (38) and lift the saw arm to its full height.
2. Loosen the miter lock (10).

3. Rotate the miter table (9) until the pointer aligns with the desired angle on the miter scale (13).
4. Retighten the miter lock (10).

WARNING: Be sure to tighten the miter lock before making a cut. Failure to do so could result in the table moving during the cut, causing serious personal injury.

5. Loosen the bevel lock (17) and pull out the 0 ºbevel adjuster (31) and move the saw arm (34) to the left or right to the desired bevel angle (between 0 ºand 45 º). Tighten the bevel lock (17).
6. Place the workpiece flat on the table with one edge securely against the fence (8). If the board is warped, place the convex side against the fence. If the concave side is placed against the fence, the board could break and jam the blade.
7. When cutting long pieces of timber, support the opposite end of the timber with the side bars (14), a roller stand or a work surface that is level with the saw table.
8. Use the clamp assembly (18) to secure the workpiece wherever possible. Never use more than ONE clamp.
9. It is possible to remove the clamp assembly (18) by loosening the clamp assembly lock (16) and moving it to the other side of the table. Make sure the clamp assembly lock is tight before using the clamp.
10. Before turning on the saw, perform a dry run of the cutting operation to check that there are no problems.
11. Hold the operating handle (1) firmly and squeeze the switch trigger (28). Allow the blade to reach maximum speed and slowly lower the blade into and through the workpiece.
12. Release the switch trigger (28) and allow the saw blade to stop rotating before raising the blade out of the workpiece. Wait until the blade stops before removing the workpiece.

Adjusting the laser line

Fig. 45

The laser is factory set to the center of the blade width. To adjust the position of the laser, proceed as follows:

1. Remove the laser cover by pulling it towards you.
2. Switch on the laser light with the on/off switch (27) (Fig. 45).
3. Using a Phillips head screwdriver (not supplied), adjust the position of the laser line by turning the laser pitch control (Fig. 46).
4. Adjust until the laser hits the centre of the blade.
5. Switch off the laser light.

Fig. 46

Using the laser line generator

WARNINGS:

Do not stare directly at the laser beam.

Never aim the beam at any person or an object other than the workpiece.

Do not deliberately aim the beam at personnel and ensure that it is not directed towards the eye of a person for longer than 0.25s.

Always ensure the laser beam is aimed at a sturdy workpiece without reflective surfaces. Wood or rough coated surfaces are acceptable. Bright shiny reflective surfaces are not suitable for laser use as the reflective surface could direct the beam back at the operator.

Always remember to switch off the laser on/off switch (27) after finishing a job. Only turn the laser beam on when the workpiece is on the miter saw table.

1. Mark the line of the cut on the workpiece.
2. Adjust the angle of miter and bevel of the cut as required.
3. Switch on the laser light on/off switch (27).
4. Clamp the workpiece in position using the laser line to align the blade with the pencil mark on the workpiece.
5. Plug in the machine and start the motor.
6. When the blade is at its maximum speed (approximately 2 seconds), lower the blade through the workpiece.
7. After completing the cut, switch off the laser light on/off switch (27).
8. After each use, clean the laser light assembly (6) as described below:
    - Switch off the laser light switch (27) and then remove the plug from the power point.
    - With the saw arm (34) in the raised position, use a soft brush to dust away the sawdust build-up around the assembly.

Note: Wear eye protection while brushing the dust away.

Maintenance

WARNING: Always ensure that the tool is switched off and the plug is removed from the outlet before making any adjustments or maintenance procedures.

- Any damage to this tool should be repaired and carefully inspected before use, by qualified repair personnel.
- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
- Great Lakes Technologies, LLC will not be responsible for any damage or injury caused by unauthorized repair or mishandling of the tool.

Power cord maintenance

If the supply cord needs replacing, the task must be carried out by the manufacturer, the manufacturer's agent, or an authorized service centre in order to avoid a safety hazard.

Cleaning

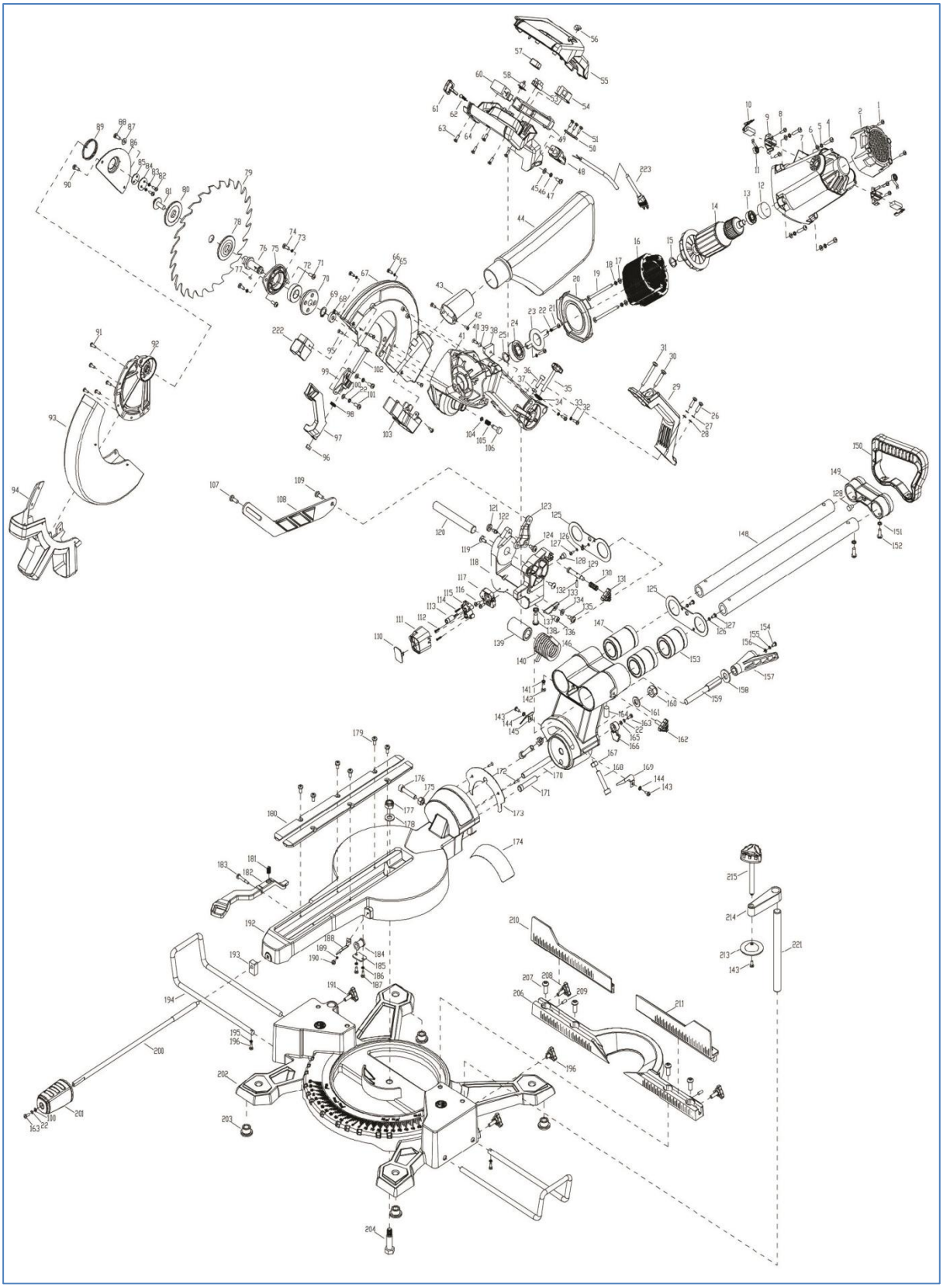
1. Keep the tool's air vents unclogged and clean at all times.
2. Remove dust and dirt regularly. Cleaning is best done with a soft brush or a rag.
3. Re-lubricate all moving parts at regular intervals.
4. Never use caustic agents to clean plastic parts.

CAUTION: Do not use cleaning agents to clean the plastic parts of the saw. A mild detergent on a damp cloth is recommended.

General inspection

Regularly check that all screws are tight.
They may vibrate loose over time.

Exploded view and parts list



Part #	Stock #	Description
1	70751-001	Screw
2	70751-002	Motor cover
4	70751-004	Screw
5	70751-005	Spring washer
6	70751-006	Washer
7	70751-007	Motor housing
8	70751-008	Screw
9	70751-009	Brush holder
10	70751-010	Brush
11	70751-011	Brush spring
12	70751-012	Rubber boot
13	70751-013	Bearing
14	70751-014	Armature
15	70751-015	C clip
16	70751-016	Stator
17	70751-017	Washer
18	70751-018	Spring washer
19	70751-019	Screw
20	70751-020	Fan baffle
21	70751-021	Screw
22	70751-022	Spring washer
23	70751-023	Bearing cover
24	70751-024	Bearing
25	70751-025	C clip
26	70751-026	Screw
27	70751-027	Spring washer
28	70751-028	Washer
29	70751-029	Carry handle
30	70751-030	Screw
31	70751-031	Screw
32	70751-032	Screw
33	70751-033	Spring washer
34	70751-034	Nut
35	70751-035	Depth adjustment screw
36	70751-036	Screw
37	70751-037	Nut
38	70751-038	Linkage speedup block
39	70751-039	Taper lock washer
40	70751-040	Screw
41	70751-041	Rocker arm
42	70751-042	Screw
43	70751-043	Exhaust port
44	70751-044	Dust collection bag
45	70751-045	Washer
46	70751-046	Spring washer

Part #	Stock #	Description
47	70751-047	Screw
48	70751-048	Cord protector
49	70751-049	Trigger
50	70751-050	Cold clamp
51	70751-051	Screw
53	70751-053	Binding post
54	70751-054	Transformer
55	70751-055	Upper handle
56	70751-056	Lucidity plate
57	70751-057	Laser switch button
58	70751-058	Laser switch
60	70751-060	Switch
61	70751-061	Switch lock button
62	70751-062	Lock button spring
63	70751-063	Screw
64	70751-064	Lower handle
65	70751-065	Spring washer
66	70751-066	Screw
67	70751-067	Fixed guard
68	70751-068	Bearing
69	70751-069	C clip
70	70751-070	Gear
71	70751-071	Screw
72	70751-072	Bearing
73	70751-073	Spring washer
74	70751-074	Screw
75	70751-075	Gear case cover
76	70751-076	Spindle
77	70751-077	Key
78	70751-078	Inner flange
79	70751-079	Blade
80	70751-080	Outer flange
81	70751-081	Arbor bolt
82	70751-082	Screw
83	70751-083	Spring washer
84	70751-084	Plate guarding(big)
85	70751-085	Plate guarding(small)
86	70751-086	Moving guard plate
87	70751-087	Big washer
88	70751-088	Screw
89	70751-089	Torsion spring
90	70751-090	Special screw
91	70751-091	Rivet
92	70751-092	Cast centre
93	70751-093	Moving guard

Part #	Stock #	Description
95	70751-095	Sunk screw
96	70751-096	Locknut
97	70751-097	Shield lock piece
98	70751-098	Spring
99	70751-099	Shield lock sheet
100	70751-100	Washer
101	70751-101	Screw
102	70751-102	Screw
103	70751-103	Back guard safety
104	70751-104	E clip
105	70751-105	Gear lock pin spring
106	70751-106	Gear lock pin
107	70751-107	Shoulder Screw
108	70751-108	Linkage
109	70751-109	Shoulder Screw
110	70751-110	Laser window
111	70751-111	Laser case
112	70751-112	Screw
113	70751-113	Laser
114	70751-114	Screw
115	70751-115	Dual laser carrier
116	70751-116	Screw
117	70751-117	Laser fixed plate
118	70751-118	Bracket
119	70751-119	Big screw
120	70751-120	Pivot shaft
121	70751-121	Bearing
122	70751-122	Special screw
123	70751-123	Linkage support
124	70751-124	Shoulder Screw
125	70751-125	Bearing cover
126	70751-126	Spring washer
127	70751-127	Screw
128	70751-128	Rubber pole
129	70751-129	Lock pin
130	70751-130	Lock pin spring
131	70751-131	Lock pin cap
132	70751-132	Rolled pin
133	70751-133	Trench depth bracket
134	70751-134	Wave washer
135	70751-135	Shoulder Screw
136	70751-136	Socket head screw
137	70751-137	Spring washer
138	70751-138	Socket head screw
139	70751-139	Spring sleeve

Part #	Stock #	Description
140	70751-140	Big torsion spring
141	70751-141	Spring washer
142	70751-142	Screw
143	70751-143	Screw
144	70751-144	Spring washer
145	70751-145	Bevel pointer(left)
146	70751-146	Arm
147	70751-147	Linear bearing
148	70751-148	Slide
149	70751-149	Slide end cap
150	70751-150	Slide end cap carry handle
151	70751-151	Spring washer
152	70751-152	Socket head screw
153	70751-153	Linear bearing
154	70751-154	Screw
155	70751-155	Spring washer
156	70751-156	Washer
157	70751-157	Bevel lock handle
158	70751-158	Washer
159	70751-159	Bevel lock bolt
160	70751-160	Locknut
161	70751-161	Washer
162	70751-162	Long knob
163	70751-163	Screw
164	70751-164	Hex grub screw
165	70751-165	Washer
166	70751-166	Lever
167	70751-167	Nut
168	70751-168	Socket head screw
169	70751-169	Bevel pointer(right)
170	70751-170	Double stud
171	70751-171	Straight cut setting pin
172	70751-172	Sunk screw
173	70751-173	Safety cover
174	70751-174	Bevel scale
175	70751-175	Nut
176	70751-176	Socket head screw
177	70751-177	Locknut
178	70751-178	Washer
179	70751-179	Screw
180	70751-180	Cutting insert
181	70751-181	Spring
182	70751-182	Detent pole
183	70751-183	Socket head screw
184	70751-184	Turntable bolt

Part #	Stock #	Description
185	70751-185	Turntable bolt cover
186	70751-186	Spring washer
187	70751-187	Screw
188	70751-188	Miter pointer
189	70751-189	Spring washer
190	70751-190	Screw
191	70751-191	Long knob
192	70751-192	Turntable
193	70751-193	Lock Boot
194	70751-194	Support bar
195	70751-195	Spring washer
196	70751-196	Screw
200	70751-200	Lock bolt
201	70751-201	Lock Handle
202	70751-202	Base
203	70751-203	Rubber foot
204	70751-204	Shoulder Screw
205	70751-205	Slide table(right)
206	70751-206	Fence
207	70751-207	Screw
208	70751-208	Long knob
209	70751-209	Hex grub screw
210	70751-210	Left slide fence
211	70751-211	Right slide fence
213	70751-213	Clamp
214	70751-214	Support arm
215	70751-215	Workpiece knob
221	70751-221	Support pole
222	70751-222	Front guard safety
223	70751-223	Power cord

Limited two years warranty

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